

## Researchers take 1st production HEV for a spin

There's a sleek silver sedan silently cruising the Argonne-East site. Most car aficionados sighting the car are challenged to place the model or make, but that's because this 1998 Toyota Prius is only one of two dozen in the U.S.

While the exterior of the Prius is intriguing — it resembles a VW Bug from the front and a Mercedes from the rear — it is what's under the hood and behind the back seat



**MOTOR TREND?** — Robert Larsen (ES), manager of vehicle systems and fuels research, prepares to take the Prius hybrid-electric vehicle for a ride. Argonne researchers are studying the new Toyota's potential for improving vehicle efficiency and emissions. *Photos by George Joch*

that has piqued the curiosity of lab researchers.

The Prius is the first mass-produced hybrid electric car and just what Argonne's Advanced Powertrain Test Facility was designed to study. The powertrain facility is the nation's only laboratory dedicated to evaluating the efficiency and effectiveness of hy-

brid electric vehicle (HEV) components and system designs.

Typically HEVs combine an internal combustion engine with an electric motor to achieve the efficiency and low emissions of an electric vehicle with the power and range of a traditional car.

"HEVs are a sophisticated combination of advanced engines, high-efficiency electric motors, battery technology and electronic control systems. We want to understand better the potential for improving vehicle efficiency and emissions," said Robert Larsen, manager of vehicle systems and fuels research at Argonne.

Before emissions testing at the powertrain facility begins, the Prius must be broken in with a combination of city and highway driving. Students are putting a majority of the needed 4,000 miles on the car, but interested transportation researchers have been helping, too.

ES Division Director Bill Schertz occasionally uses the car on his 30-mile-long commute from work to home. Schertz said "it's an eminently driveable machine — accel-

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**DASH PANEL** — Prius drivers can monitor the car's power flow — whether the gasoline engine or electric motor is propelling the car — by watching this dashboard readout.

## ANL-West's Wilmot wins 'Vette in national contest

The wide-open desert roads of Idaho are looking better than ever to Argonne-West's Gerald Wilmot (OD), who won a brand-new Corvette convertible worth more than \$45,000 in an oil-company contest.

Wilmot was shopping at the Grand Auto Supply store at the Blackfoot Plaza last spring when he entered the contest, sponsored by Penzoil and Grand Auto Supply. The grand prizes were three convertibles: a Corvette, a Lexus and a Mercedes.

But at the time, Wilmot's sights were set a bit lower. "They were giving away a free multi-purpose knife," he said, "and I needed one."

So he bought a case of oil, filled out the entry form, dropped it in the box and looked forward to receiving the knife (it arrived

three weeks later). He figured his chance of winning an expensive automobile in a nationwide contest was next to nothing.

But Lady Luck was smiling on the young husband and father of two. Wilmot's form was one of three pulled from the 200,000 entries from stores across the country.

Wilmot picked up his Corvette at Cole Chevrolet in Pocatello Oct. 13. The price tag on the new car is \$48,500. Taxes will amount to five percent of the total cost.

"I will come up with the tax money any way I can in order to keep the car," said Wilmot, whose previous car was an '86 Chevy Cavalier.

The Wilmot family is already planning its first road trip in the new vehicle.

— Gaylene L. Flores



**LUCK OF THE DRAW** — Argonne-West's Gerald Wilmot (OD) won this brand-new Chevrolet Corvette, worth \$48,500, in a national contest sponsored by an oil company and car-parts store chain.

## Toy drive to brighten kids' holiday

Argonne-East employees can donate toys to brighten the holidays for children on Chicago's West Side, starting Nov. 13.

In cooperation with Bethel New Life, a partner with Argonne in several recycling and environmental projects, toys donated by laboratory employees during the Annual Recycled Toy Drive will benefit children in Chicago's West Garfield Park area.

On Friday, Nov. 13, toys in good condition can be dropped

off at the American Recycling Day Event (see related story on page 3). From Nov. 13 through Friday, Dec. 11, toys

will be collected at the Building 213 Cafeteria during lunch service hours, or at the Argonne-East Fire Department.

Toys must be reuseable, safe, clean, intact and in working condition. Toy guns or toys in poor condition will not be accepted.

The drive is sponsored by Argonne's Waste Management and Pollution Prevention Advisory Committee. For more information, call ext. 2-6778.

The Argonne Choral Group is looking for singers to join in its 17th season of spreading holiday cheer at Argonne-East.

No experience is required, just a willingness to sing, said Harry Bell (PFS), who has led the group since its inception.

Rehearsals will start in November and be held at lunchtime in the Building 213 Cafeteria.

The group will perform at the cafeteria, the Argonne Credit Union and in Building 201 on Dec. 10.

For more information, or to volunteer, call Bell at ext. 2-7092.

**Inside** ■ Japan's new education minister has Argonne ties  
■ Recycling to be highlighted ■ Employees help clean up

# Japan's new education minister has Argonne tie



**FRIEND IN HIGH PLACES** — This 1985 photo of Akito Arima was taken at a 1985 Physics conference at Argonne.

Akito Arima, who worked as a visiting scientist in Argonne's Physics Division from 1959 to 1960 and returned to work at the laboratory several summers thereafter, has been named Japan's new education minister.

During these years, theoretical physicists at Argonne introduced

the use of then-modern computers to study the structure of atomic nuclei and formed the basis of the nuclear shell model.

Arima worked mainly with Dieter Kurath, Stanley Cohen, Robert Lawson and Malcolm McFarlane to achieve an understanding of the structures of the oxygen, fluorine and neon nuclei. Earlier, the computational complexity of the problem had made this impossible.

Upon returning to Japan, Arima continued to be an internationally prominent leader in nuclear physics research. He set his sights on reforming Japan's science education system, and became presi-

dent of the University of Tokyo. As the new head of Japan's Monbusho - the Ministry of Education, Science, Sports and Culture - he is empowered to direct Japanese spending on science.

Arima now oversees all of Japan's national universities and major physics centers, and hopes to merge Monbusho with the Science and Technology Agency (STA). Under the STA purview are major physics labs, including the Spring-8 synchrotron radiation source, the JAERI fusion laboratory and the Institute of Physical and Chemical Research. It also oversees the country's space agency.

## Argonne researchers studying Japan's Prius

*(Continued from page 1)*

eration is adequate to allow safe merges onto the expressways, it keeps up with traffic and seems to deliver about 50 miles per gallon while doing it."

Schertz added that he would consider owning one for commuting purposes when they are introduced in the U.S. in 2000.

Researchers have a second Prius and plans are underway to test the soon-to-be-released HEVs from Nissan and Honda.

### Details for car fans

The 1998 Toyota Prius (Available in the U.S. in 2000)

**Engine:** 1.5 liter, 4-cylinder/16-valve Atkinson-cycle 58-horsepower gasoline engine, 40-horsepower electric motor and a 20-horsepower generator.

**Batteries:** 1.8 fW-hr high-power nickel-metal hydride pack that weighs only 88 pounds. The charge-sustaining design means it never has to be recharged from an outside source.

**Transmission:** Planetary gear power split device that functions as a continuously variable automatic

**Cool features:** A color, multi-functional display in the dashboard shows the energy flow and vehicle efficiency, and doubles as a television (but only in Japan); automatic air conditioning and retractable side mirrors designed for Japan's narrow streets.

— Evelyn Brown

## Taking the hybrid-electric Prius for a test-drive

Once you get used to the right-hand drive and figure out that the windshield wipers are where you think the turn signals should be, the Prius is a fun, quiet car to drive.

The car even comes with entertainment: In the center of the dashboard is a computer screen that welcomes you to the car. Then it shows what is powering the car — whether batteries, gas engine, or both — with icons and arrows.

Another screen shows the

trip's fuel economy, including sun icons to show when the energy from braking has charged the battery. In Japan, the screen is also used to watch TV.

The gas engine starts the car, but once everything is warmed up (in minutes), the batteries run the car. The electric motor is uncomfortably quiet at the first stop sign or two until you get used to it. On hard acceleration on the highway, the gas engine kicks in for added power, but instead of a grumbling transmission, the Prius

whispers at a slightly higher pitch. The car moves well enough that I had to watch my speed during my I-55 test drive. I got a little over 45 mpg keeping up with traffic with the air conditioning on.

Toyota claims to have a Prius with improved highway fuel economy and emissions that meet the Super Ultra Low Emissions Vehicle standard when the car goes on sale here in 2000.

— Evelyn Brown

## HR to host Joliet Junior College early registration

Early registration for Joliet Junior College spring classes will be offered Friday, Nov. 20, from noon to 4 p.m. in the Human Resources offices in Argonne-

East's Building 201.

College representatives will be available to register students for the spring classes that begin in mid-January.

Employees must bring an approved Educational Assistance Form (ANL-89) to the registration.

Call Betty Iwan (HR) at ext. 2-3410 for more information.

## Service Awards

Service Awards for November include:

### 40 Years

Michael A. Essling (CMB).

### 35 Years

Rudolph Bouie (PFS-PMO), Edwin A. Kemereit Sr. (CHM).

### 30 Years

Douglas E. Engert (ECT-CTT).

### 25 Years

Georgia A. Anast (EA), C. Dwayne Bryngelson (TD-AW), John M. Carpenter (PNS), Patricia A. Finn (CMT), Robert C. Hischer (IPD-MIS), Elliot L. Kolsto (LEG), Ada L. Lewis (PFS-DR).

### 20 Years

A. James Aicher (OD), Robert B. Belcher (OD), Cheryl A. Uzzardo (PFS-CU), Michael E. Vaught (IPD-MED), Karen S. White (ERD).

### 15 Years

Vinod K. Gambhir (PFS-FPE), Richard H. Piech (ASD), Dai-Kai Sze (TD), Pappannan Thiyagarajan (PNS), Kathleen Winner (OTD), Linda Young (PHY), Michael P. Zacher (OD).

### 10 Years

Evelyn A. Brown (OPA), Youngsoo Chang (EA), Lisa A. Durham (EA), Ian T. Foster (MCS), George Friedericks (ESH-FD), Panakkal Kunjathu Job (XFD), Dennis M. Larsen (RPS-SEC), Steven Leatherman (ASO), Neil E. Lish (OD-PS), David E. Moncton (APS-PA), John A. Monson (OD), Julie L. Muzzarelli (DIS), Michael R. Nevins (DIS), Stephen Karl Peters (RPS-SEC), Lawrence E. Rudsinski (ECT-CTT), Jack M. Sepich Jr. (EMO-WMO).

### 5 Years

Mary Ann Bludgen (OTD), John Carwardine (ASD), Ernest E. Cherbak (ASD), Matthew Elliott (TD), Yiyang Ge (IPD-TIS), Carlos Gonzalez (ASD), Todd A. Kimmell (EA), Alan McArthur (ECT-EE), Bruce T. Murdoch (ESH-HP), Michael O'Connor (ESH-HP), Jerome P. Rivette Jr. (ESH-FD), Ervina M. Scott (PFS-BM), Scott Wesling (ASD), Bingxin Yang (ASD).



Argonne News is published weekly for Argonne employees by the Office of Public Affairs. Send news items to Editor Dave Jacqué, Building 201, Room 2Q-02 (OPA-201). Voice: ext. 2-5582. Fax: ext. 2-5274. E-mail: info@anl.gov. Argonne-West correspondent: Gaylene Flores, Bldg. 752, ext. 3-7523. Deadline for all materials is 5 p.m. Monday. Argonne National Laboratory is operated by the University of Chicago for the U.S. Department of Energy. Vol. 51, No. 43.

# Lab to mark recycling day with exhibits, contest

“America Recycles Day” will be marked with activities and exhibits at the Argonne-East Cafeteria Friday, Nov. 13, from 11 a.m. to 1 p.m. From Monday, Nov. 9 through Nov. 13, employees can sign America Recycles Day cards, pledging to buy more recycled products

and increase recycling efforts at home and work. Those signing pledge cards will be eligible to win a variety of prizes, such as an American Green Dream Home, a Barnett 1400 sailboat, a sky box party at a Blackhawks game, a celebrity dinner cruise on

the Spirit of Chicago, a John Deere mulching mower, an IBM computer for classroom use, a Hobie Kat kayak, a getaway weekend for four, an outdoor camping package, a Huffy mountain bike and Argonne-East pollution prevention T-shirts and coffee mugs.

Several companies have set up exhibits in the cafeteria, including:

- BT Office Products
- Spent Lamp Recycling Technologies
- Safety-Kleen
- Illinois Recycling Services

America Recycles Day activities at Argonne-East will be sponsored by the Argonne-East Pollution Prevention Program and the Waste Minimization and Pollution Prevention Advisory Committee.

For more information, call the Waste Minimization and Pollution Prevention Hotline at ext. 2-6778.

## CIGNA hikes insurance rate

CIGNA will increase premiums for supplemental life insurance coverage on Jan. 1, 1999, due to increased claim costs.

New premium rates shown below are monthly rates for \$1,000 of coverage. For more information, call ext. 2-2991 (Argonne-East) or ext. 3-7227 (Argonne-West).

Coverage at one times annual earnings (includes accidental death and dismemberment coverage)

AGE	CURRENT RATE	NEW RATE
Under 30	\$0.10	\$0.11
30-34	0.12	0.13
35-39	0.13	0.14
40-44	0.21	0.22
45-49	0.37	0.40
50-54	0.58	0.62
55-59	0.81	0.87
60-64	1.19	1.27
65-69	1.73	1.85
70-74	3.53	3.77

Coverage at two to five times annual earnings (no accidental death and dismemberment coverage)

AGE	CURRENT RATE	NEW RATE
Under 30	\$0.06	\$0.06
30-34	0.08	0.09
35-39	0.09	0.10
40-44	0.16	0.17
45-49	0.32	0.34
50-54	0.52	0.56
55-59	0.77	0.82
60-64	1.15	1.23
65-69	1.69	1.81
70-74	3.48	3.72

## Retirement vendors to visit

Argonne’s retirement vendors will have representatives at Argonne-East to meet individually with employees to answer questions about retirement plans or retirement

plan assets. Appointments are for one-half hour each and will be held in Building 201. To schedule an appointment with these representatives, call the number listed.

Vendor	Day	Call:
Fidelity	Wednesday, Nov. 11, Thursday, Nov. 12	(800) 642-7131 Appointment Desk
TIAA-CREF	Wednesday, Nov. 18 Thursday, Nov. 19	(800)842-2005 Appointment Desk

## Seminars

Send seminar listings to Evie Fagan, Building 201, Room 2U-09 (OPA-201). Deadline is 5 p.m. Monday. Seminar listings only can be sent by e-mail to efagan@anl.gov. Note new e-mail address.

### Argonne-West

#### Tuesday Nov. 10

RPS Human Resources Seminar: “Human Resources Policy & Procedures Training” by Ryan Tew, Human Resources Specialist, ANL-W. 8 a.m., Lab & Office Bldg., Conference Room 752.

### Argonne-East

#### Monday, Nov. 9

Chemistry Division Monday Morning Seminar Series: “Trace Isotopic Analysis of Stardust” by Michael J. Pellin, (CHM & MSD). 11 a.m., Bldg. 200 Auditorium.

High Energy Physics Division Theoretical Physics Seminar: “Large-x Resummation in Deeply Inelastic Scattering” by Michael Sotiropoulos, University of Michigan, Ann Arbor. 2 p.m., Bldg. 362, Conference Room E188.

Physics Division Seminar: “Titanium-44: Its Half-Life and Its Significance” by Irshad Ahmad, (PHY). 3:30 p.m., Bldg. 203, Conference Room B221.

#### Tuesday, Nov. 10

Geochemical Processes/Environmental Research Division Seminar: “Physical Controls on Mineralization: Establishing the Fundamental Thermodynamics and Kinetics of Calcite Growth” by Henry Teng, Georgia Institute of Technology, School of Earth and Atmospheric Sciences, Atlanta. 1:30 p.m., Bldg. 203, E-wing Conference Room.

#### Wednesday, Nov. 11

Materials Science Division Seminar: “Organic Superconductors: Progress, Turmoil, and Challenges” by Aravinda Kini, (MSD & CHM). 11 a.m., Bldg. 212, Conference Room A157.

#### Friday, Nov. 13

Physics Division Colloquium: “The Many Phases of QCD” by Krishna Rajagopal, Massachusetts Institute of Technology, Cambridge. 11 a.m., Bldg. 203 Auditorium.

#### Monday, Nov. 16

High Energy Physics Division Theoretical Physics Seminar: “Chiral Symmetry Breaking and Supersymmetric Gauge Theory” by Stephen Selipsky, Washington University, St. Louis, Mo. 2 p.m., Bldg. 362, Conference Room E188.

Additional seminars appear on the Argonne News World Wide Web site:  
<http://www.anl.gov/news.html>

## Deadlines

News items, seminar listings and classified ads must be received at the Argonne News office by 5 p.m. Monday for the issue of the following Monday.

call fax e-mail write

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Building 201, Rooms 2U-09 and 2Q-02

# Classified Ads

Classified ad request forms are available in stockrooms, at the Office of Public Affairs in Building 201, and at Argonne-West's Building 752, Room D109. The old half-sheet forms are acceptable, but note that the deadline is incorrect. Deadline for classified ads is **5 p.m. Monday**.

Requests can be submitted by fax to ext. 2-5274, or by inter-office mail to Evie Fagan, Building 201, Room 2U-09 (OPA-201). A drop-off box is located at the *Argonne News* office, Building 201, room 2Q-02 and at 2U-09.

Request forms must be signed and must include a home phone number. Ads cannot be accepted by phone or electronic mail. Please limit ads to 25 words; longer ads may be edited. Housing listed for sale or rent is available without regard to race, creed, color or national origin.

Argonne-West employees are welcome to submit classified ads to *Argonne News*. Request forms are available at the office of Argonne-West Correspondent Gaylene Flores, Building 752. When completed, fax the request form to the *Argonne News* office at (630) 252-5274.

## MISCELLANEOUS

MISCELLANEOUS — Soldering gun. \$10. Sander w/extra belts. \$25. Hand jig saw w/extra blades. \$20. Skill saw w/extra blades. \$20. All in good condition. Paul Kurpis, (708) 229-0826.

PATIO FURNITURE — Like new, never used outside, matching 4 chairs & 2 chaise lounges, each w/pad & umbrella, white w/ grey pads, no table or base. \$25 each unit. Peg Sichak, (847) 259-2938.

BICYCLE — Girl's bike, 24" Huffly Carribean Cruiser, for 8-11 year old, like new. \$50. Maury Goodman, (630) 393-2431.

CAMPER — Rockwell XL, deluxe model, sleeps 8, oak cabinets, pull out stove and sink, screen room & all accessories, used 6 times. New \$4,680 – asking \$3,500 o.b.o. Earl Powell, (708) 841-7058.

BEANIE BABIES — Batty, Bongo, Chip, Chocolate, Claude, Congo, Old Derby, Freckles, Hissy, Iggy, Mel, Mystic, Nanook, Nuts, Pinky, Pouch, Pounce, Prance, Pugsley, Scoop, Smoochy, Snip, Spunky, Stretch & Strut. \$7/each or 3/\$20. Gloria King, (708) 349-3764.

MISCELLANEOUS — X-country skis, Tur-Langrenn, made in Norway. \$45. Ladies jade ring, unique setting. \$80. Light-blue denim over-the-shoulder purse w/light brown leather trim. \$15. Martha Teitlus, (708) 233-2654.

SNOWBLOWER — Sunbeam, gas powered, old but runs well. \$50. Lindell Williams, (630) 420-0433.

FURNITURE — Rosewood, queen size platform bed & mattress w/attached nightstand, rosewood sideboard. 2 black leather chairs. 7-piece sectional sofa. Richard Rauba, (630) 969-1426.

FURNITURE — Teak dining table & 6 chairs, solid teak coffee table, sofa & matching love seat. Handmade rag rug, 92" x 126" oval. Richard Raube, (630) 969-1426.

BEANIE BABIES — '97 teenie beanie complete set. \$300. 21 retired and 15 current, all mint condition w/tags. Heidi Terdic, (815) 725-7030.

WORD PROCESSOR — Smith Corona, LCD screen, 3.5" floppy, extra ribbon, instruction book, can be used as typewriter or word processor, great condition. \$100. Robert Aeschlimann, (630) 416-8749.

PIANO — Baldwin, upright model, Hamilton, walnut finish, excellent condition. \$2,400. Jau Tang, (630) 527-0353.

MISCELLANEOUS — Microwave, good condition. \$50. Amana gas stove, white, good condition. \$100. Mary Kowalczyk, (630) 739-0130.

FLOOR LOOM — 25", 4-harness floor loom, warpboard, instructional book and magazines, miscellaneous weaving, equipment and supplies. \$550 for all. Ginger Warren, (630) 963-2612.

SINK — Stainless steel sink, 33" x 22" x 7" w/single handle Moen faucet & sprayer. Best offer. Mark Kamiya, (630) 850-7558.

KITCHEN SET — Oak pedestal kitchen table w/leaf & 4 chairs, 70" round or 60" x 40" w/leaf. \$150. Ann Murray, (630) 257-7145.

DINING ROOM SET — Rectangular glass-top dining room table w/4 chairs. \$120 o.b.o. Ginger Warren, (630) 963-2612.

COLLECTOR PLATES — Large collection of many different types & styles, porcelain, china, silver, cameo, Rockwell, Hans Christian Anderson, Christmas, Mother's Day, Wizard of Oz, floral, Disney, historical, animals, etc., Bradford Exchange, Franklin Mint, other dealers. Katie Gregar, (630) 416-8584.

COLLECTOR PLATES — Donald Zolan collectibles, large selection of plates, miniature plates & lithographs by this artist who features young children. Katie Gregar, (630) 416-8584.

PRECIOUS MOMENTS — PM 822 Put on A Happy Face. \$125. E1380/G Indian Girl. \$70. Sue Cunningham, (630) 257-2580.

BEDROOM SET — Oak, contemporary, 9-drawer dresser, upright cabinets, light bridge & mirrors, queen Sealy Posturepedic mattress set & frame. \$1,000 o.b.o. Kathleen O'Brien, (708) 226-1740.

## AUTOMOBILES

1992 CADILLAC — Sedan DeVille, white, blue interior, one owner, garage kept. \$9,000. Walter Ray, (815) 467-4407.

1991 MERCURY — Sable, many new parts, all power, AT, AC, AM/FM cassette, leaving country, must sell. \$3,800 o.b.o. Ruslan Sanishvili, (630) 910-1128

1993 MERCURY — Tracer wagon, white, one owner, excellent condition, AC, AM/FM cassette, 71K miles. \$4,900 o.b.o. Fran Perri, (815) 439-1671.

1988 PONTIAC — 6000, needs transmission repair. \$300. Randy Zaber, (630) 852-2124.

1988 PONTIAC — Grand Prix LE, V6, AT, PS, PW, PDL, AC, gray, no rust, 92.5K miles. \$2,750 o.b.o. Paul Johnson, (630) 910-0126.

## HOUSING

LOT/SALE — Lake of the Ozarks. \$17,500. Todd Trotter, (630) 261-9750.

TIMESHARE/SALE — Austria. \$6,500 & exchangeable. Todd Trotter, (630) 261-9750.



## Green team

Environmentally minded Argonne volunteers spent part of the afternoon of Oct. 23 clearing trash from Lemont Road. Above, Rob Piorkowski (ESH), Terry Bray and Lorraine Morris (ESH) combine forces to clear Westgate Road of trash. At right, Terri Bray (PFS) grabs a discarded pop can. Bottled water and other refreshments were provided for the volunteers, courtesy of Marriott Corp. The walk was sponsored by the Argonne Club and the Waste Minimization and Pollution Prevention Advisory Committee. *Photos by George Joch*



## FOUND

CHARM — Goldtone charm with child's photograph in Bldg. 362, Sandy Gotlund, 2-6212.

GAS CAP — On Northgate Road, near inner circle. Cathy Kaicher, 2-3019.

## WANTED

TRAILER — Small utility trailer, reasonable. Rich Ferry, (815) 838-7259.

BEANIE BABY — Seamore the seal. Sandy Gotlund, (630) 257-5558.

CAR-POOL — Looking for someone to car pool to University of Chicago. Oleg Makarov, (630) 789-9065 or makarova@rainbow.uchicago.edu.

SNOW BLOWER — Heavy duty snow blower in good working condition. Pat Krueger, (630) 257-7968.

**Need information  
about  
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